



STIC Search Report

EIC 3600

STIC Database Tracking Number: 10/729896

Michael Lowe
Location Knx4D5
Art Unit: 3652
Employee# 78859
2-6889
Thursday, July 09, 2009
Case Serial Number: 10/729896

From: Etelka R. Griffin
Location: EIC 3600
KNOX/4B68
Phone: 571-272-4230

Etelka.griffin@uspto.gov

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055215 (10) 6527494 March 4, 2003

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6527494[Get Drawing Sheet 1 of 17](#)[Access PDF of Official Patent *](#)[Order Patent File History / Wrapper from REEDFAX®](#)[Link to Claims Section](#)

March 4, 2003

Trailer having tilt and dump functions

REISSUE: December 8, 2003 - Reissue Application filed Ex. Gp.: 3652; Re. S.N. 10/729,896 (O.G. March 2, 2004)**APPL-NO:** 055215 (10)**FILED-DATE:** January 23, 2002**GRANTED-DATE:** March 4, 2003**ASSIGNEE-PRE-ISSUE:** January 23, 2002 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., INNOVATION BY CONTRACT, INC. 1829 WILSON AVENUE LANCASTER, PENNSYLVANIA, 17603, Reel and Frame Number: 012525/0028**ASSIGNEE-AT-ISSUE:** Innovations By Contract, Inc, Lancaster, Pennsylvania, United States (US), United States company or corporation (02)**CORE TERMS:** trailer, bed, tilt, dump, bottle jack, actuator, tongue, pivot, mounting, jack ...Source: [Legal](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Find Patents](#) > [More U.S. Patents](#) > [Utility, Design and Plant Patents](#)Terms: **patno=6527494** ([Edit Search](#) | [Suggest Terms for My Search](#))View: **Custom**Segments: Assignee, Assignee-iiid, English-title, Granted-date, Ref-date, Reissue
Date/Time: Thursday, July 9, 2009 - 3:23 PM EDT[My Lexis™](#) | [Search](#) | [Research Tasks](#) | [Get a Document](#) | [Shepard's®](#) | [Alerts](#) | [Total Litigator](#) | [Transactional Advisor](#) | [Counsel Selector](#)

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rose	played	inflation	spending
shot	round	pitch	straight


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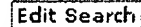
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
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or	or	w/seg	in same segment
w/N	within N words	w/s	in same sentence
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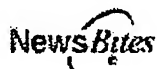
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May 4, 2009 Monday

HEADLINE: Sun TV Network strengthens above map**LANGUAGE:** ENGLISH

SUBJECT: BROADCASTING INDUSTRY (91%); MARKET CAPITALIZATION (90%); PRICE CHANGES (90%); TELEVISION INDUSTRY (90%); STOCK INDEXES (90%); PRICE INCREASES (89%); SECURITIES TRADING (78%); SHAREHOLDERS (69%) FACTIVA F/T; PRICE DYNAMICS; AGGREGATE VOLUMES AND TURNOVER PERIOD; OPEN INTEREST TREND AND INTERPRETATION; PRICE PERFORMANCE RANK IN INDICES AND SECTORS; RELATIVE VALUATION INDICATORS [RVI]; SHAREHOLDER RETURNS; FINANCIALS; MARKET SHARE; FUNDAMENTALS

COMPANY: Sun TV Network Ltd**TICKER:** SUNTV; 532733.BY; SUTV.BO**INDUSTRY:** BroadcastingSource: [Command Searching](#) > [News, All \(English, Full Text\)](#) [i](#)Terms: [6527494 or 6,527,494](#) ([Edit Search](#) | [Suggest Terms for My Search](#))View: [Custom](#)Segments: [Byline](#), [Company](#), [Contact](#), [Correction](#), [Date](#), [Graphic](#), [Headline](#), [Industry](#), [Language](#), [Publication](#), [Section](#), [State](#), [Subject](#), [Ticker](#), [Title](#)

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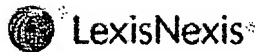
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Family Accession Nbr :

20090110090003

Patent Number :

EP1231103	A2 20020814	[EP1231103]
US2002110442	A1 20020815	[US20020110442]
US6527494	B2 20030304	[US6527494]

Title .:

Trailer having tilt and dump functions

Patent Assignee :

INNOVATION BY CONTRACT INC
INNOVATIONS BY CONTRACT INC
INNOVATIONS BY CONTRACT INC PE

Orig. Patent Assignee :

Innovation by Contract Inc.; 840, Stumpfhill Drive; Lancaster, PA 17601 (US)

Inventor(s) :

HURLBURT JOSEPH

Application Nbr :

2002US-0055215 20020123; 2002EP-0100134 20020213

Filing Details :

(US20020110442)

Rel. Prov. 60/268,448 20010213 [2001US-P268448]

Priority Details :

2001US-P268448 20010213; 2002US-0055215 20020123

IPC :

B60P-001/04
B60P-001/06
B60P-001/16
B60P-001/24
B60P-001/28
B60P-001/30
B62D-021/18
B62D-021/20
B62D-063/00
B62D-063/06

IPC Advanced All :

B60P-001/06 [2006-01 A - I R M EP]; B60P-001/16 [2006-01 A - I R M EP];
B60P-001/24 [2006-01 A - I R M EP]; B62D-021/20 [2006-01 A - I R M
EP]; B62D-063/06 [2006-01 A - I R M EP]

IPC Core All :

B60P-001/04 [2006 C - I R M EP]; B62D-021/18 [2006 C - I R M EP];
B62D-063/00 [2006 C - I R M EP]

ECLA :

B60P-001/06
B60P-001/16
B60P-001/24
B62D-021/20
B62D-063/06B

US Class :

ORIGINAL (O) : 414482000

Designated States :

(EP1231103)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

Citations :

(US20020110442)

Unspecified source

US2718431 [US2718431] 298022000
US3058779 [US3058779] 298017500
US5411284 [US5411284] 280656000
US5678978 [US5678978] 414482000
EP199652 [EP-199652] 414485000

FR1276868 [FR1276868] 414482000

GB541205 [GB-541205] 414482000

WO8300033 [WO8300033] 414483000

Abstract :

(EP1231103)

A frame configuration for use on a trailer such that it is operable in both a tilt mode of operation and a dump mode. An actuating mechanism includes a linear actuator that is supported on the frame by a bracket and a yoke that connects to a load bed to power the vertical movement of the load bed in both tilt and dump functions. The linear actuator is pivotally mounted to permit a repositioning of the actuator into an inoperative position. The frame configuration is provided with an articulated tilt frame (20) in which the tongue (12) is pivoted thereto allowing the load bed to pivot about a tilt axis (26) which can coincide with the wheel axis of the trailer. The bed frame can be locked to the tilt frame for tilting upon articulation with the tongue, while a disconnection of the bed frame from the tilt frame (20) enables the bed frame (30) to pivot about the dump axis (29) to provide a dump function in addition to the tilt function. <IMAGE>

Object of Invention :

(EP1231103)

This invention relates generally to a trailer attachable to a vehicle and, more particularly, to a trailer configured to provide selectively an operation of tilting about its tire axis and an operation of dumping about a dump axis positioned rearwardly of the tire axis.

According to a first aspect of the present invention, there is provided a trailer comprising a frame having at least a pair of transversely opposed wheels rotatable about an axis of rotation; a draft tongue connected to said frame and being adapted for connection to a prime mover; and a load bed supported on said frame for selective pivotal movement about two pivot axes including a tilt pivot axis corresponding to said axis of rotation and a dump pivot axis oriented rearwardly of said tilt pivot axis.

According to a second aspect of the invention, there is provided an actuating mechanism for use with a frame and a load bed pivotally movable about a pivot axis relative to said frame, comprising a mounting bracket affixed to said frame; a linear actuator supported on said mounting bracket; and a yoke connected to said actuator and to said load bed to effect vertical movement of said load bed in response to a corresponding linear movement of said actuator.

Advantages / Prev. Drawbacks :

(EP1231103)

It would be desirable to provide a trailer capable of being towed behind a conventional vehicle, such as a truck or a car, that would be operable to provide both a tilt function and a dump function.

The trailer may advantageously further comprise an actuator mechanism supported on said tongue and coupled to said bed frame to power the pivotal movement of said load bed about at least one of said dump pivot axis and said tilt pivot axis.

Accordingly, it would be desirable to provide a mechanism for allowing the bottle jack 40 to be moved into a non-intruding inoperative position in such circumstances.

It will be noted by one skilled in the art, however, that the height of the pulleys 73, 77 could still present a clearance problem for a long load, which is why a removal of the assembly 70 is preferred.

Independent Claims :

(EP1231103)

1. A trailer comprising:

a frame having at least a pair of transversely opposed wheels rotatable about an axis of rotation;

a draft tongue connected to said frame and being adapted for connection

to a prime mover; and
a load bed supported on said frame for selective pivotal movement about two pivot axes including a tilt pivot axis corresponding to said axis of rotation and a dump pivot axis oriented rearwardly of said tilt pivot axis.

14. An actuating mechanism for use with a frame and a load bed pivotally movable about a pivot axis relative to said frame, comprising:
a mounting bracket affixed to said frame;
a linear actuator supported on said mounting bracket; and
a yoke connected to said actuator and to said load bed to effect vertical movement of said load bed in response to a corresponding linear movement of said actuator.

15. An apparatus comprising:
a frame supported above the ground by a pair of wheels rotatable about an axis of rotation;
a load bed pivotally connected to said frame for vertical movement relative thereto; and
an actuator mechanism positioned forwardly of said load bed and being pivotally supported on said frame at an actuator pivot axis, said actuator mechanism including a yoke pivotally connected to said load bed for movement relative thereto about a yoke pivot axis oriented in substantial alignment with said actuator pivot axis.

Update New docs :

2002-33

1 / 2 LGST - @EPO

Patent Number :

US2002110442 A1 20020815 [US20020110442]

(A1) First published patent application

US6527494 B2 20030304 [US6527494]

(B2). Granted patent as second publication

Application Number :

US5521502 20020123 [2002US-0055215]

Publication actions :

20020123 US-API [POS; EXM]

FILING DETAILS

US5521502 20020123 [2002US-0055215]

20020815 US-A1 [POS; EXM]

First published patent application

US2002110442 A1 20020815 [US20020110442]

20030304 US-B2 [POS; PIF]

Granted patent as second publication

US6527494 B2 20030304 [US6527494]

Action Taken :

20020123 US/AS-A [NMC]

ASSIGNMENT

OWNER: INNOVATION BY CONTRACT, INC. 1829 WILSON AVENUE LAN; EFFECTIVE

DATE: 20020121

ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: HURLBURT, JOSEPH C.

/AR; REEL/FRAME: 012525/0028

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ASSIGNMENT

OWNER: INNOVATION BY CONTRACT, INC. 1829 WILSON AVENUE LA; EFFECTIVE

DATE: 20020121

ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: HURLBURT, JOSEPH

C.; REEL/FRAME: 012525/0028

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ASSIGNMENT

OWNER: INNOVATION BY CONTRACT, INC., PENNSYLVANIA; EFFECTIVE DATE:

20020121

ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:HURLBURT, JOSEPH
C.;REEL/FRAME:012525/0028

20040302 US/RF-A [OPP]
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20031208

Lasted Event Group :

OPP

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Update Code :

2009-13

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Patent Number :

EP1231103 A2 20020814 [EP1231103] (A2) Application published without
search report

Application Number :

EP02100134 20020213 [2002EP-0100134]

Publication actions :

20020213 EP-API [POS; EXM]

FILING DETAILS

EP02100134 20020213 [2002EP-0100134]

20020814 EP-A2 [POS; EXM]

Application published without search report

EP1231103 A2 20020814 [EP1231103]

Action Taken :

20020814 EP/AK-A [POS; ADM]

DESIGNATED CONTRACTING STATES:

BENANNTTE VERTRAGSSTAATEN

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

20020814 EP/AX-A [POS; ADM]

EXTENSION OF THE EUROPEAN PATENT TO

ERSTRECKUNG DES EUROPÄISCHEN PATENTS AUF

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20050309 EP/18D-A [NEG; NIF]

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ALS ZURUECKGENOMMEN GELTEN

EFFECTIVE DATE: 20040901

Lasted Event Group :

NIF

Dead

Update Code :

2005-10

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Patent Number :

6,527,494 A 20030304 [US6527494]

Patent Assignee :

Innovations By Contract Inc

Actions :

20031208 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20040302

REISSUE REQUEST NUMBER: 10/729896

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3652

Reissue Patent Number:

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Patent Number :

US2002110442 A1 20020815 [US20020110442]

Patent Number 2 :

US6527494 B2 20030304 [US6527494]

Title :

(A1) Trailer having tilt and dump functions

Patent Assignee :

(A1) INNOVATIONS BY CONTRACT INC PE (US)

Patent Assignee :

Innovations By Contract, Inc, Lancaster PA [US]

Patent Assignee 2 :

(B2) INNOVATIONS BY CONTRACT INC (US)

Inventor(s) :

(A1) HURLBURT JOSEPH C (US)

Application Nbr :

US10055215 20020123 [2002US-0055215]

Filing Details :

Rel. Prov. 60/268,448 20010213 [2001US-P268448]

Priority Details :

US5521502 20020123 [2002US-0055215]

US26844801P 20010213 [2001US-P268448]

Intl Patent Class :

(A1) B60P-001/04

IPC Advanced All :

B60P-001/24 [2006-01 A - I R M EP]; B62D-021/20 [2006-01 A - I R M EP];

B62D-063/06 [2006-01 A - I R M EP]

IPC Core All :

B60P-001/04 [2006 C - I R M EP]; B62D-021/18 [2006 C - I R M EP];

B62D-063/00 [2006 C - I R M EP]

EPO ECLA Class :

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B62D-021/20

B62D-063/06B

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ORIGINAL (O) : 414482000

Document Type :

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Citations :

Unspecified source

US2718431 [US2718431] 298022000

US3058779 [US3058779] 298017500

US5411284 [US5411284] 280656000

US5678978 [US5678978] 414482000

EP199652 [EP-199652] 414485000

FR1276868 [FR1276868] 414482000

GB541205 [GB-541205] 414482000

WO8300033 [WO8300033] 414483000

Publication Stage :

(A1) First published patent application

Publication Stage 2 :

(B2) Granted patent as second publication

Abstract :

A frame configuration that is particularly adaptable for use on a trailer such that the frame configuration is operable in both a tilt mode of operation and a dump mode of operation. An actuating mechanism includes a linear actuator that is supported on the frame by a bracket and a yoke that connects to a load bed to power the vertical movement of the load bed in both tilt and dump functions. The linear actuator is pivotally mounted to permit a re-positioning of the actuator into an

inoperative position. The frame configuration is provided with an articulated tilt frame in which the tongue is pivoted thereto allowing the load bed to pivot about a tilt axis which can coincide with the wheel axis of the trailer. The bed frame can be locked to the tilt frame for tilting upon articulation with the tongue, while a disconnection of the bed frame from the tilt frame enables the bed frame to pivot about the dump axis to provide a dump function in addition to the tilt function. The actuator can pivot about the connection thereof to the bed frame to position the actuator into a lowered inoperative transport position generally parallel to the trailer tongue. A modified screw jack can be part of a kit that can be utilized to provide the powered operations of the tilt function for existing gravity-based tilt trailers.

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